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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/517,186	03/02/2000	Hisao Takemura	04284.0830	4671

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EXAMINER

LELE, TANMAY S

ART UNIT	PAPER NUMBER
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2681

DATE MAILED: 11/19/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/517,186

Applicant(s)

TAKEMURA, HISAO

Examiner

Tanmay S Lele

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 March 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-11 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 02 March 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____ 6) ☐ Other: _____

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a) because they fail to show the “sectioned at a line A-A,” for Figure 1A, as described in the specification. Any structural detail that is essential for a proper understanding of the disclosed invention should be shown in the drawing. MPEP § 608.02(d). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

2. The disclosure is objected to because of the following informalities:
- On page 3, line 21, the phrase “transmitting/or receiving” is listed twice.
 - On page 10, both the “wireless information storage device” and the “antenna” have the same diagram number (102).

Appropriate correction is required.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claim 3 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding claim 3, it was not understood if the “the loop-shape” was referring specifically to the coil antenna, the molded case, or the combination of the two. For purposes of

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examination it was assumed that "the loop shape" was referring only to the molded case with the center filled (as in a puck). Appropriate correction is required.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1 – 7 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kelly et al (Kelly, US Patent No 6,010,074) in view of Yap et al. (Yap, US Patent No. 6,111,506).

Regarding claim 1, Kelly teaches of a wireless information storage device (as seen in Figures 1 and 3 and detailed starting column 3, line 34 and ending column 4, line 63), comprising a coil antenna for transmitting and/or receiving a signal via wireless communication (as seen in Figures 1 and 3 column 3, line 49); a memory for storing information (as seen in Figures 1 and 3 and column 4, line 30), a control unit that generates information by demodulating a signal received via the coil antenna (as seen in Figures 1 and 3 and column 4, line 26 -37), and generates a signal to be transmitted via the coil antenna by modulating information stored in the memory (as seen in Figures 1 and 3 and column 4, lines 37 - 63).

Kelly does not specifically teach of a coil antenna having a two-dimensional center or a molded case including the coil antenna, wherein the two-dimensional center of the coil antenna is off from the two-dimensional center of the molded case.

In a related art dealing with a contact-less card communication unit, Yap teaches of a coil antenna having a two-dimensional center and a molded case including the coil antenna, wherein

the two-dimensional center of the coil antenna is off from the two-dimensional center of the molded case (as seen in Figure 1 and column 12, lines 59 – 63).

It would have been obvious to one skilled in the art at the time of invention to have included into Kelly's contact-less data collection system, Yap's antenna structure and position, for the purposes of quickly and securely verifying information for security purposes in a reliable manner without added delay or inconvenience, as taught by Yap.

Regarding claim 2, Kelly in view of Yap teach all the claimed limitations as recited in claim 1. Yap further teaches that the molded case has a board-shape; and the central axis of the coil antenna is approximately parallel to an axis perpendicular to plane surface of the molded case, and off from the two-dimensional center of the plane surface of the molded case (as seen in figures 1 – 6 and starting column 13, line 64 and ending column 14, line 34).

Regarding claim 3, Kelly and Yap teaches all the claimed limitations as recited in claim 1. Kelly further teaches that the molded case has a loop-shape (as seen in Figures 4 and 5 and starting column 5, line 9 and ending column 6, line 50).

Regarding claim 4, Kelly in view of Yap teach all the claimed limitations as recited in claim 1. Kelly further teaches that the molded case has a round shape (as seen in Figures 4 and 5 and starting column 5, line 9 and ending column 6, line 50).

Regarding claim 5, Kelly in view of Yap teaches all the claimed limitations as recited in claim 1. Kelly further teaches that the control unit further comprises a demodulator that generates information by demodulating the received signal (as seen in Figure 1 and column 4, lines 13 – 25); a modulator that generates the transmitted signal by modulating the stored

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information (as seen in Figure 1 and column 4, lines 13 – 25); and a controller that controls reading and writing information (as seen in Figure 1 and column 4, lines 37 – 62).

Regarding claim 6, Kelly in view of Yap, teach all the claimed limitations as recited in claim 1. Kelly further teaches that the memory is a nonvolatile memory (column 4, lines 26 – 36).

Regarding claim 7, Kelly in view of Yap, teaches all the claimed limitations as recited in claim 1. Kelly further teaches that the molded case further includes the memory and the control unit (as seen in Figures 1 and 2).

Regarding claim 10, Kelly teaches of a method for putting a wireless information storage device on or into an item having a two-dimensional center, the device which comprises a coil antenna and a molded case having a two-dimensional center including the coil antenna, comprising the step of putting the device on or into the item (as seen in Figure 1 and column 3, lines 34 – 60).

Kelly does not specifically teach of having a two-dimensional center including the coil antenna with the two-dimensional center of the molded case being off from the two-dimensional center of the item.

In a related art dealing with a contact-less card communication unit, Yap teaches of having a two-dimensional center including the coil antenna with the two-dimensional center of the molded case being off from the two-dimensional center of the item (as seen in Figure 1 and column 12, lines 59 – 63).

It would have been obvious to one skilled in the art at the time of invention to have included into Kelly's contact-less data collection system, Yap's antenna structure and position,

for the purposes of quickly and securely verifying information for security purposes in a reliable manner without added delay or inconvenience, as taught by Yap.

7. Claims 8, 9, and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kelly et al (Kelly, US Patent No 6,010,074) in view of Yap et al. (Yap, US Patent No. 6,111,506) and in further view of Rostoker et al. (Rostoker, US Patent No. 6,373,447).

Regarding claim 8, Kelly teaches of a wireless information storage device, comprising: a coil antenna for transmitting and/or receiving a signal via wireless communication (as seen in Figure 1 and column 4, lines 13 – 15); a memory for storing information (ass seen in Figure 2 and column 4, lines 26 – 36); and a control unit that generates information by demodulating a signal received via the coil antenna, and generates a signal to be transmitted via the coil antenna by modulating information stored in the memory (as seen in Figure 1 and column 4, lines 13 – 25).

Kelly does not specifically teach of having a two-dimensional center [coil antenna] and a molded case having a two-dimensional center including the coil antenna, wherein each coil antenna is located at a position in the device relatively different from each other when a plurality of devices is stacked.

In a related art dealing with a contact-less card communication unit, Yap teaches of a two-dimensional center [coil antenna] and a molded case having a two-dimensional center including the coil antenna (as seen in Figures 1 – 5 and column 12, lines 59 – 63 and starting column 13 line 64 and ending column 14, line 34).

It would have been obvious to one skilled in the art at the time of invention to have included into Kelly's contact-less data collection system, Yap's antenna structure and position,

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for the purposes of quickly and securely verifying information for security purposes in a reliable manner without added delay or inconvenience, as taught by Yap.

Kelly in view of Yap still do not teach of each coil antenna is located at a position in the device relatively different from each other when a plurality of devices is stacked.

In a related art dealing with embedded antennas, Rostoker teaches of each coil antenna is located at a position in the device relatively different from each other when a plurality of devices is stacked (as seen in Figure 6 and starting column 8, line 66 and ending column 9, line 55).

It would have been obvious to one skilled in the art at the time of invention to have included into Kelly and Yap's contact-less communication device, Rostoker's antenna system, for the purposes of reducing the physical size of the radio system, as taught by Rostoker.

Regarding claim 9, Kelly in view Yap and Rostoker, teach all the claimed limitations as recited in claim 8. Roster further teaches that the position is a place where the two-dimensional center of the coil antenna is off from the two-dimensional center of the molded case (as seen in Figure 6 and starting column 8, line 66 and ending column 9, line 55).

Regarding claim 11, Kelly teaches of a method for putting a wireless information storage device on or into an item, the device which comprises a coil antenna (as seen in Figure 1 and column 4, lines 13 – 25).

Kelly does not specifically teach of a molded case including the coil antenna, having a two-dimensional center including the coil antenna, or of comprising the step of putting the device at a position in the item relatively different from each other when a plurality of item is stacked.

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In a related art dealing with a contact-less card communication unit, Yap teaches of a molded case including the coil antenna, having a two-dimensional center including the coil antenna (as seen in Figures 1 – 5 and column 12, lines 59 – 63 and starting column 13 line 64 and ending column 14, line 34).

It would have been obvious to one skilled in the art at the time of invention to have included into Kelly's contact-less data collection system, Yap's antenna structure and position, for the purposes of quickly and securely verifying information for security purposes in a reliable manner without added delay or inconvenience, as taught by Yap.

Kelly in view of Yap still do not teach of comprising the step of putting the device at a position in the item relatively different from each other when a plurality of item is stacked.

In a related art dealing with embedded antennas, Rostoker teaches of comprising the step of putting the device at a position in the item relatively different from each other when a plurality of item is stacked (as seen in Figure 6 and starting column 8, line 66 and ending column 9, line 55).

It would have been obvious to one skilled in the art at the time of invention to have included into Kelly and Yap's contact-less communication device, Rostoker's antenna system, for the purposes of reducing the physical size of the radio system, as taught by Rostoker.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tanmay S Lele whose telephone number is (703) 305-3462. The examiner can normally be reached on 9 - 6:30 PM Monday – Thursdays and on alternate Fridays.

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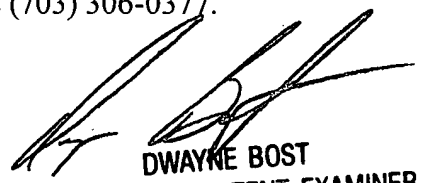
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dwayne Bost can be reached on (703) 305-4778. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9314 for regular communications and (703) 872-9314 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 306-0377.



Tanmay S Lele
Examiner
Art Unit 2681

tsl
November 14, 2002



DWAYNE BOST
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600